

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE
ENTRY
3284.49

TOTAL
SESSION
4023.96

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY
-5.01

TOTAL
SESSION
-8.35

FILE 'REGISTRY' ENTERED AT 11:53:49 ON 14 APR 2000
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STRUCTURE FILE UPDATES: 13 APR 2000 HIGHEST RN 261789-37-1
DICTIONARY FILE UPDATES: 13 APR 2000 HIGHEST RN 261789-37-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 11, 2000

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=> s (?oligoglycoside? or ?oligoglucoside? or ?polyglycoside? or
?polyglucoside?)/cns

0 ?OLIGOGLYCOSIDE?/CNS

0 ?OLIGOGLUCOSIDE?/CNS

0 ?POLYGLYCOSIDE?/CNS

3 ?POLYGLUCOSIDE?/CNS

L1

3 (?OLIGOGLYCOSIDE? OR ?OLIGOGLUCOSIDE? OR ?POLYGLYCOSIDE? OR
?POLYGLUCOSIDE?)/CNS

=> d 1-3 ide can

L1 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2000 ACS
RN 216004-10-3 REGISTRY
CN **Silicone Polyglucoside 128VP (9CI)** (CA INDEX NAME)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA

402232

LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:17084

L1 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2000 ACS

RN 216004-04-5 REGISTRY

CN **Silicone Polyglucoside 123VP (9CI)** (CA INDEX NAME)

MF Unspecified

CI PMS, MAN

PCT Manual registration

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:17084

L1 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2000 ACS

RN 216003-88-2 REGISTRY

CN **Silicone Polyglucoside 120VP (9CI)** (CA INDEX NAME)

MF Unspecified

CI PMS, MAN

PCT Manual registration

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:17084

=> s (oligo or poly) (2w) (glycoside? or glucoside?)

1474 OLIGO

11 OLIGOS

1474 OLIGO

(OLIGO OR OLIGOS)

769104 POLY

621 GLYCOSIDE?

1947 GLUCOSIDE?

L2 16 (OLIGO OR POLY) (2W) (GLYCOSIDE? OR GLUCOSIDE?)

=> d 1-16 ide can

L2 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2000 ACS

RN 219610-33-0 REGISTRY

CN **Glucosyltransferase, uridine diphosphoglucose-lipopolysaccharide glucoside .beta.(1.fwdarw.3)- (9CI)** (CA INDEX NAME)

OTHER NAMES:

CN UDP-glucose:(glucosyl) lipopolysaccharide .beta.1,3-glucosyltransferase

MF Unspecified

CI MAN

SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2000 ACS

RN 219610-27-2 REGISTRY

CN **Glucosyltransferase, uridine diphosphoglucose-lipopolysaccharide
glucoside .alpha.(1.fwdarw.3)- (9CI) (CA INDEX NAME)**

OTHER NAMES:

CN UDP-glucose:(glucosyl) lipopolysaccharide .alpha.1,3-glucosyltransferase

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2000 ACS

RN 219610-21-6 REGISTRY

CN **Galactosyltransferase, uridine diphosphogalactose-lipopolysaccharide
glucoside .alpha.(1.fwdarw.2)- (9CI) (CA INDEX NAME)**

OTHER NAMES:

CN UDP-galactose:(glucosyl) lipopolysaccharide .alpha.1,2-
galactosyltransferase

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2000 ACS

RN 219610-16-9 REGISTRY

CN **Galactosyltransferase, uridine diphosphogalactose-lipopolysaccharide
glucoside .alpha.(1.fwdarw.4)- (9CI) (CA INDEX NAME)**

OTHER NAMES:

CN UDP-galactose:(glucosyl) lipopolysaccharide .beta.1,4-
galactosyltransferase

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 219594-22-6 REGISTRY
CN **Glucosyltransferase, uridine diphosphogalactose-lipopolysaccharide
glucoside .alpha.(1.fwdarw.3)- (Escherichia coli strain F2513 gene waaO)
(9CI)** (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF019747-derived protein GI 3821853
CN UDP-glucose:(glucosyl) LPS .alpha.1,3-glucosyltransferase WaaO
(Escherichia coli strain F2513 gene waaO)
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 219594-21-5 REGISTRY
CN **Galactosyltransferase, uridine diphosphogalactose-lipopolysaccharide
glucoside .alpha.(1.fwdarw.2)- (Escherichia coli strain F2513 gene waaT)
(9CI)** (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF019747-derived protein GI 3821852
CN UDP-galactose:(glucosyl) LPS .alpha.1,2-galactosyltransferase WaaT
(Escherichia coli strain F2513 gene waaT)
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 219594-19-1 REGISTRY
CN **Galactosyltransferase, uridine diphosphogalactose-lipopolysaccharide
glucoside .alpha.(1.fwdarw.4)- (Escherichia coli strain F2513 gene waaX)
(9CI)** (CA INDEX NAME)

OTHER NAMES:

CN .beta.1,4-Galactosyltransferase WaaX (Escherichia coli strain F2513 gene
waaX)
CN GenBank AF019747-derived protein GI 3821849
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 219594-11-3 REGISTRY
CN **Glucosyltransferase, uridine diphosphogalactose-lipopolysaccharide
glucoside .alpha.(1.fwdarw.3)- (Escherichia coli strain F470 gene waaO)**
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF019746-derived protein GI 3821841
CN UDP-glucose:(glucosyl) LPS .alpha.1,3-glucosyltransferase WaaO
(Escherichia coli strain F470 gene waaO)
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 219594-10-2 REGISTRY
CN **Galactosyltransferase, uridine diphosphogalactose-lipopolysaccharide
glucoside .alpha.(1.fwdarw.2)- (Escherichia coli strain F470 gene waaT)**
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF019746-derived protein GI 3821840
CN UDP-galactose:(glucosyl) LPS .alpha.1,2-galactosyltransferase WaaT
(Escherichia coli strain F470 gene waaT)
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 219594-06-6 REGISTRY
CN **Glucosyltransferase, uridine diphosphoglucose-lipopolysaccharide
glucoside .beta.(1.fwdarw.3)- (Escherichia coli strain F470 gene waaV)**
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN .beta.1,3-Glucosyltransferase WaaV (Escherichia coli strain F470 gene
waaV)
CN GenBank AF019746-derived protein GI 3821837
FS PROTEIN SEQUENCE
MF Unspecified

CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:105895

L2 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 216004-10-3 REGISTRY
CN **Silicone Polyglucoside 128VP (9CI)** (CA INDEX NAME)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:17084

L2 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 216004-04-5 REGISTRY
CN **Silicone Polyglucoside 123VP (9CI)** (CA INDEX NAME)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:17084

L2 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 216003-88-2 REGISTRY
CN **Silicone Polyglucoside 120VP (9CI)** (CA INDEX NAME)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:17084

L2 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 159813-82-8 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may result in incomplete search results. For additional information, enter HELP

RN* at an online arrow prompt (=>).

CN **D-Glucose, homopolymer, glycoside with 2,3-dihydroxypropyldimethylsoya alkyl ammonium chloride** (CA INDEX NAME)
MF Unspecified
CI PMS, MAN, GRS
PCT Manual registration
SR CAS Registry Services

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L2 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 156410-42-3 REGISTRY
CN Glucosyltransferase, polyphenol (9CI) (CA INDEX NAME)
OTHER NAMES:
CN **Polyphenol glucoside synthetase**
CN Polyphenol glucosyltransferase
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:326324

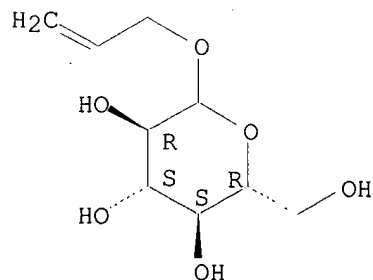
REFERENCE 2: 121:76890

L2 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2000 ACS
RN 42850-52-2 REGISTRY
CN D-Glucopyranoside, 2-propenyl, homopolymer (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Allyl D-glucopyranoside homopolymer
CN **Poly(allyl D-glucoside)**
FS STEREOSEARCH
MF (C9 H16 O6)x
CI PMS
PCT Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

CRN 48149-74-2
CMF C9 H16 O6

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:331176

REFERENCE 2: 79:68039

=> fil medl,caplus,biosis,embase,wpids

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 59.74 | 4083.70 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -8.35 |

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FILE 'WPIDS' ENTERED AT 11:55:35 ON 14 APR 2000
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=> dis his

(FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE' ENTERED AT 11:36:55 ON 14 APR 2000)

DEL HIS Y

FILE 'REGISTRY' ENTERED AT 11:53:49 ON 14 APR 2000

L1 3 S (?OLIGOGLYCOSIDE? OR ?OLIGOGLUCOSIDE? OR ?POLYGLYCOSIDE? OR
 ?
 L2 16 S (OLIGO OR POLY) (2W) (GLYCOSIDE? OR GLUCOSIDE?)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT 11:55:35 ON 14 APR 2000

=> s (?oligoglycoside? or ?oligoglucoside? or ?polyglycoside? or
 ?polyglucoside? or l1 or l2 or (OLIGO OR POLY) (2W) (GLYCOSIDE? OR GLUCOSIDE?))
 and (direct acetaliz? or transacetyl?)

L3 0 FILE MEDLINE
 L4 2 FILE CAPLUS
 L5 0 FILE BIOSIS
 L6 1 FILE EMBASE

LEFT TRUNCATION IGNORED FOR '?OLIGOGLYCOSIDE?' FOR FILE 'WPIDS'
 LEFT TRUNCATION IGNORED FOR '?OLIGOGLUCOSIDE?' FOR FILE 'WPIDS'
 LEFT TRUNCATION IGNORED FOR '?POLYGLYCOSIDE?' FOR FILE 'WPIDS'
 LEFT TRUNCATION IGNORED FOR '?POLYGLUCOSIDE?' FOR FILE 'WPIDS'
 L7 0 FILE WPIDS

TOTAL FOR ALL FILES

L8 3 (?OLIGOGLYCOSIDE? OR ?OLIGOGLUCOSIDE? OR ?POLYGLYCOSIDE? OR
?POLYGLUCOSIDE? OR L1 OR L2 OR (OLIGO OR POLY) (2W) (GLYCOSIDE?
OR GLUCOSIDE?)) AND (DIRECT ACETALIZ? OR TRANSACETYL?)

Left truncation is not valid in the specified search field in the
specified file. The term has been searched without left truncation.
Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID'
would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you
used a truncation symbol after a punctuation mark, the system may
interpret the truncation symbol as being at the beginning of a term.
Implied proximity is used in search fields indexed as single words,
for example, the Basic Index.

=> dup rem l8

PROCESSING COMPLETED FOR L8

L9 2 DUP REM L8 (1 DUPLICATE REMOVED)

=> d 1-2 cbib abs hit

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 1

1999:693436 Document No. 132:35966 Oligosaccharide analogues of
polysaccharides. Part 19. Synthesis of 2-(naphthalen-1-yl)ethyl
cellooligoglycosides and [(naphthalene-1,8-diyl)di(ethane-2,1-
diyl)] bis[**cellooligoglycosides**]. Xu, Jinwang; Vasella, Andrea
(Laboratorium fur Organische Chemie, ETH-Zentrum, Zurich, CH-8092,
Switz.). Helv. Chim. Acta, 82(10), 1728-1752 (English) 1999. CODEN:
HCACAV. ISSN: 0018-019X. Publisher: Verlag Helvetica Chimica Acta.

AB Glucosyl, cellobiosyl, cellotriosyl, cellotetraosyl, and celooctaosyl
residues were attached to naphthalene-1,8-diethanol with the goal of
prepg. mimics of cellulose I. Among the templates that were considered,
1,8-diethynylnaphthalene led to unstable products, and glycosidation of
naphthalene-1,8-dimethanol gave orthoesters that could not be rearranged
to glycosides. The conformation of naphthalene-1,8-diethanol in the
crystal and of its di-Me ether in soln. was studied by X-ray anal. and
force-field calcn. Rotation around the Ar-CH2 and CH2-CH2 bonds of the
di-Me ether is only weakly hindered and the O.cntdot..cntdot..cntdot.O
distance of cryst. naphthalene-1,8-diethanol (6.01 .ANG.) corresponds to
the mean distance of the parallel chains of cellulose I.beta.. The
acetylated glycosyl bromides were prepd. by a new convergent synthesis.
Glycosylation of naphthalene-1,8-diethanol by glycosyl bromides under
established conditions of the Koenigs-Knorr reaction proved problematic,
particularly on account of an acetyl transfer blocking one of the
hydroxyethyl groups. Basic zinc carbonate, however, promoted
glycosylation of naphthalene-1,8-diethanol and naphthalene-1-ethanol with
glycosyl bromides and did not lead to **transacetylation**. The
mono- to tetrasaccharides were isolated in yields of 56-82%, and the
octasaccharides in 32 and 16%. The mono- and disaccharides were
deacetylated with NaOMe in MeOH. Aq. NaOH was used for the tri-, tetra-,
and octasaccharides, as their partially deacetylated derivs. proved
insol.

in MeOH. The fully deprotected saccharides were isolated in over 90%,
while the yield of the dioctaoside was lower on account of its poor water
soly.

TI Oligosaccharide analogues of polysaccharides. Part 19. Synthesis of
2-(naphthalen-1-yl)ethyl **cellooligoglycosides** and
[(naphthalene-1,8-diyl)di(ethane-2,1-diyl)] bis[

cellooligoglycosides]

- AB Glucosyl, cellobiosyl, cellotriosyl, cellotetraosyl, and cellooctaosyl residues were attached to naphthalene-1,8-diethanol with the goal of prepg. mimics of cellulose I. Among the templates that were considered, 1,8-diethynynaphthalene led to unstable products, and glycosidation of naphthalene-1,8-dimethanol gave orthoesters that could not be rearranged to glycosides. The conformation of naphthalene-1,8-diethanol in the crystal and of its di-Me ether in soln. was studied by X-ray anal. and force-field calcn. Rotation around the Ar-CH₂ and CH₂-CH₂ bonds of the di-Me ether is only weakly hindered and the O.cntdot..cntdot..cntdot.O distance of cryst. naphthalene-1,8-diethanol (6.01 .ANG.) corresponds to the mean distance of the parallel chains of cellulose I.beta.. The acetylated glycosyl bromides were prepd. by a new convergent synthesis. Glycosylation of naphthalene-1,8-diethanol by glycosyl bromides under established conditions of the Koenigs-Knorr reaction proved problematic, particularly on account of an acetyl transfer blocking one of the hydroxyethyl groups. Basic zinc carbonate, however, promoted glycosylation of naphthalene-1,8-diethanol and naphthalene-1-ethanol with glycosyl bromides and did not lead to **transacetylation**. The mono- to tetrasaccharides were isolated in yields of 56-82%, and the octasaccharides in 32 and 16%. The mono- and disaccharides were deacetylated with NaOMe in MeOH. Aq. NaOH was used for the tri-, tetra-, and octasaccharides, as their partially deacetylated derivs. proved insol.
- in MeOH. The fully deprotected saccharides were isolated in over 90%, while the yield of the dioctaoside was lower on account of its poor water soly.
- ST glycosyl bromide glycosylation naphthalenediethanol zinc carbonate; naphthalenediethanol conformation crystal structure; naphthalenylethyl **cellooligoglycoside** oligosaccharide prepn
- IT Oligosaccharides, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(cellooligosaccharides; prepn. of (naphthalenyl)ethyl **cellooligoglycosides** and [(naphthalenediyl)di(ethanediyl)] bis[**cellooligoglycosides**])
- IT Conformation
Crystal structure
Glycosylation
(prepn. of (naphthalenyl)ethyl **cellooligoglycosides** and [(naphthalenediyl)di(ethanediyl)] bis[**cellooligoglycosides**])
- IT 130999-95-0P, 1,8-Naphthalenediethanol
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of (naphthalenyl)ethyl **cellooligoglycosides** and [(naphthalenediyl)di(ethanediyl)] bis[**cellooligoglycosides**])
- IT 518-05-8, 1,8-Naphthalenedicarboxylic acid 572-09-8 773-99-9, 1-Naphthaleneethanol 1730-04-7 14227-66-8 17935-66-9 74808-10-9 78853-86-8 130703-21-8 131267-29-3 168253-07-4
RL: RCT (Reactant)
(prepn. of (naphthalenyl)ethyl **cellooligoglycosides** and [(naphthalenediyl)di(ethanediyl)] bis[**cellooligoglycosides**])
- IT 2026-08-6P, 1,8-Naphthalenedimethanol 17690-95-8P 117064-62-7P
185515-64-4P 252653-04-6P 252653-08-0P 252653-11-5P 252653-12-6P
252653-13-7P 252653-14-8P 252653-16-0P 252653-17-1P 252653-20-6P
252653-21-7P 252653-23-9P 252653-24-0P 252653-25-1P 252653-31-9P
252653-32-0P 252653-34-2P 252653-35-3P 252653-43-3P 252666-04-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of (naphthalenyl)ethyl **cellooligoglycosides** and [(naphthalenediyl)di(ethanediyl)] bis[**cellooligoglycosides**])
- IT 91909-27-2P 252652-75-8P 252652-82-7P 252652-86-1P 252652-92-9P
252653-18-2P 252653-19-3P 252653-26-2P 252653-27-3P 252653-28-4P

252653-29-5P 252653-30-8P 252653-36-4P 252653-37-5P 252653-38-6P
252653-39-7P 252653-40-0P 252653-42-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of (naphthalenyl)ethyl **cellooligoglycosides** and
[(naphthalenediyl)di(ethanediyl)] bis[**cellooligoglycosides**])

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2000 ACS

1998:621225 Document No. 129:232252 Continuous production of alkyl
oligoglycosides and/or alkenyl **oligoglycosides**.

Eskuchen, Rainer; Hasse, Eiko; Gutsche, Bernhard (Henkel
Kommanditgesellschaft auf Aktien, Germany). PCT Int. Appl. WO 9840391 A1
19980917, 13 pp. DESIGNATED STATES: W: AU, BR, CA, JP, KR, PL, US; RW:
AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE.
(German). CODEN: PIXXD2. APPLICATION: WO 1998-EP1172 19980303.
PRIORITY: DE 1997-19710112 19970312.

AB The title compds., useful as nonionic surfactants, are manufd. by direct
acid acetalization of solid glucoses (C5-6 carbohydrates; esp. glucose
monohydrate or dried glucose syrup) with excessive C6-22 fatty alcs.,
e.g., coco fatty alcs. in the presence of alkylbenzenesulfonic acid
catalysts, wherein the reaction is carried out in a reactor cascade.

TI Continuous production of alkyl **oligoglycosides** and/or alkenyl
oligoglycosides

ST alkyl **oligoglycoside** manuf acetalization cascade reactor;
alkenyl **oligoglycoside** manuf acetalization cascade reactor;
glucose monohydrate acetalization coco fatty alc

IT Fatty alcohols

RL: IMF (Industrial manufacture); PREP (Preparation)
(C6-22, acetals; continuous prodn. of alk(en)yl **oligoglycosides**
by **direct acetalization** of glucose with alcs. in
cascade reactors)

IT Glycosides

RL: IMF (Industrial manufacture); PREP (Preparation)
(alkyl **polyglycosides**, coco alkyl, oligomeric; continuous
prodn. of alk(en)yl **oligoglycosides** by **direct**
acetalization of glucose with alcs. in cascade reactors)

IT Alcohols, preparation

RL: IMF (Industrial manufacture); PREP (Preparation)
(coco, glucose acetals; continuous prodn. of alk(en)yl
oligoglycosides by **direct acetalization** of
glucose with alcs. in cascade reactors)

IT Acetalization

(continuous prodn. of alk(en)yl **oligoglycosides** by
direct acetalization of glucose with alcs. in cascade
reactors)

IT Syrups (sweetening agents)

(glucose, dried; continuous prodn. of alk(en)yl **oligoglycosides**
by **direct acetalization** of glucose with alcs. in
cascade reactors)

IT Glycosides

RL: IMF (Industrial manufacture); PREP (Preparation)
(**oligoglycosides**, alkenyl; continuous prodn. of alk(en)yl
oligoglycosides by **direct acetalization** of
glucose with alcs. in cascade reactors)

IT 27176-87-0, Dodecylbenzenesulfonic acid

RL: CAT (Catalyst use); USES (Uses)
(acetalization catalyst; continuous prodn. of alk(en)yl
oligoglycosides by **direct acetalization** of
glucose with alcs. in cascade reactors)

IT 77938-63-7, Glucose monohydrate

RL: RCT (Reactant)
(acetalization; continuous prodn. of alk(en)yl **oligoglycosides**

by **direct acetalization** of glucose with alcs. in cascade reactors)
 IT 50-99-7DP, Glucose, acetals with fatty alcs. 25191-16-6DP, Polyglucose, coco alkyl
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (continuous prodn. of alk(en)yl **oligoglycosides** by **direct acetalization** of glucose with alcs. in cascade reactors)

=> s (direct acid? acetaliz? or direct acetaliz? or transacetyliz?) and (glycose? or glucose(w) (sirup or syrup)) and (fatty alcohol or alcohol)

L10 0 FILE MEDLINE
 L11 2 FILE CAPLUS
 L12 0 FILE BIOSIS
 L13 0 FILE EMBASE
 L14 0 FILE WPIDS

TOTAL FOR ALL FILES

L15 2 (DIRECT ACID? ACETALIZ? OR DIRECT ACETALIZ? OR TRANSACETYLIZ?)
 AND (GLYCOSE? OR GLUCOSE(W) (SIRUP OR SYRUP)) AND (FATTY

ALCOHOL
 OR ALCOHOL)

=> s l15 not l8

L16 0 FILE MEDLINE
 L17 1 FILE CAPLUS
 L18 0 FILE BIOSIS
 L19 0 FILE EMBASE
 L20 0 FILE WPIDS

TOTAL FOR ALL FILES

L21 1 L15 NOT L8

=> d cbib abs hit

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS

1998:682403 Document No. 129:277688 Manufacture of alkyl and/or alkenyl oligoglycosides as nonionic surfactants. Eskuchen, Rainer; Hasse, Eiko; Gutsche, Bernhard (Henkel Kommanditgesellschaft Auf Aktien, Germany).

PCT

Int. Appl. WO 9845307 A1 19981015, 13 pp. DESIGNATED STATES: W: AU, BR, CA, JP, KR, PL, US; RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (German). CODEN: PIXXD2. APPLICATION: WO 1998-EP1851 19980330. PRIORITY: DE 1997-19714255 19970407.

AB The title compds. are manufd. by **direct acid acetalization** of glucose with excess C6-22 **fatty alcs.** contg. 0-3 C:C bonds. Suspensions of aq. **glucose syrup** in **fatty alc.** are used. For example, heating at 75.degree./35 mbar a suspension obtained by dispersing 114 g of

70% aq. **glucose syrup** in 340 g molten (40.degree.) coco **fatty alc.** and contg. 1.1 g dodecylbenzenesulfonic acid catalyst gave glucose acetals contg. 3.6% polymeric products and 0.75% residual glucose.

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 heating at 75.degree./35 mbar a suspension obtained by dispersing 114 g
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 coco **fatty alc.** and contg. 1.1 g
 dodecylbenzenesulfonic acid catalyst gave glucose acetals contg. 3.6%
 polymeric products and 0.75% residual glucose.
 ST alkyl oligoglycoside manuf **fatty alc** acetalization;
glucose syrup dispersion **fatty alc**
 acetalization; coco **fatty alc** acetalization glucose
 IT **Fatty alcohols**
 RL: RCT (Reactant)
 (C6-22, acetalization; manuf. of alkyl and/or alkenyl oligoglycoside
 nonionic surfactants by acetalization of glucose with excess
fatty alcs.)
 IT Alkyl glycosides
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (C6-22-alkyl, oligomeric; manuf. of alkyl and/or alkenyl
 oligoglycoside
 nonionic surfactants by acetalization of glucose with excess
fatty alcs.)
 IT Glycosides
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (alkyl polyglycosides, coco alkyl; manuf. of alkyl and/or alkenyl
 oligoglycoside nonionic surfactants by acetalization of glucose with
 excess **fatty alcs.**)
 IT **Alcohols**, reactions
 RL: RCT (Reactant)
 (coco, acetalization; manuf. of alkyl and/or alkenyl oligoglycoside
 nonionic surfactants by acetalization of glucose with excess
fatty alcs.)
 IT Acetalization
 Nonionic surfactants
 (manuf. of alkyl and/or alkenyl oligoglycoside nonionic surfactants by
 acetalization of glucose with excess **fatty alcs.**)
 IT Glycosides
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (oligoglycosides, C6-22-alkenyl; manuf. of alkyl and/or alkenyl
 oligoglycoside nonionic surfactants by acetalization of glucose with
 excess **fatty alcs.**)
 IT 50-99-7, Glucose, reactions
 RL: RCT (Reactant)
 (acetalization; manuf. of alkyl and/or alkenyl oligoglycoside nonionic
 surfactants by acetalization of glucose with excess **fatty**
alcs.)
 IT 27176-87-0, Dodecylbenzenesulfonic acid
 RL: CAT (Catalyst use); USES (Uses)
 (manuf. of alkyl and/or alkenyl oligoglycoside nonionic surfactants by
 acetalization of glucose with excess **fatty alcs.** in
 presence of)
 IT 50-99-7DP, Glucose, acetals with **fatty alcs.**
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (oligomeric; manuf. of alkyl and/or alkenyl oligoglycoside nonionic
 surfactants by acetalization of glucose with excess **fatty**
alcs.)